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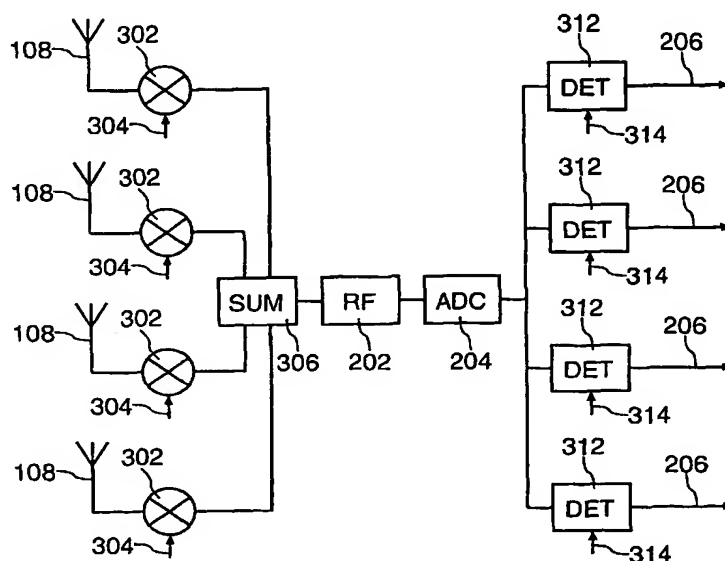
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- (71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **EVANS, David, H.** [GB/GB]; Cross Oak Lane, Redhill, Surrey RH1 5HA (GB). **KHATRI, Bhavin, S.** [GB/GB]; Cross Oak Lane, Redhill, Surrey RH1 5HA (GB). **RAYNES, Deborah, L.** [GB/GB]; Cross Oak Lane, Redhill, Surrey RH1 5HA (GB).
- (74) Agent: **WHITE, Andrew**; Philips Intellectual Property & Standards, Cross Oak Lane, Redhill, Surrey RH1 5HA (GB).
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(54) Title: RECEIVER AND METHOD OF OPERATION THEREOF



(57) **Abstract:** A receiver comprises a plurality of antennas (108) for receiving signals originally transmitted as a plurality of different signals, for example from a MIMO (Multi-Input Multi-Output) transmitter. The receiver includes a plurality of coders (302) for applying a respective unique code to each received signal and a summer (306) for combining the coded signals into a single signal which is then down-converted by a single frequency translation stage (202) and digitised. An output signal corresponding to each received signal is obtained by a plurality of detectors (312) with reference to the codes used by the coders. In a preferred embodiment, the unique codes are orthogonal codes such as Walsh codes. The receiver enables a single frequency translation stage to be used to process a plurality of received signals, thereby both saving hardware and reducing the receiver's power consumption.